



Model Number DOC NO PERFORMANCE SPECIFICATION 7613A3-XX PS7613A3-XX TRIAXIAL VARIABLE CAPACITANCE ACCELEROMETER REV B, ECN 14672, 11/30/18

SI

grams

m/s<sup>2</sup>

Hz

Hz

Hz

mV/m/s2

µm/s² /√ Hz

% F.S

%

m/s2 peak

(ppm of span)/°C

% of span

45

Flying leads

Titanium Alloy

MEMS

±98.1

0 - 600

0 - 1000

>3000

5

177

0.5

3

±49050

200

4

-55 to +125

Hermetic



• VARIABLE CAPACITANCE TECHNOLOGY

oz

- DIFFERENTIAL MODE
- HERMETICALLY SEALED
- DC RESPONSE

Weight, Max (Less Cable) Integral Cable [1] Material Sensing Technology

## PERFORMANCE

Input Range

(±5%) Frequency Response, (±3dB)

Resonant Frequency Sensitivity Differential, ±5% [2] Output Noise, Differential ,Typ Non-Linearity, Max [3]

Cross Axis Sensitivity, Max

## ENVIRONMENTAL

Maximum Mechanical Shock (0.1 ms) Bias Temperature Shift ,Max [4] Bias Calibration Error, Max Operating Temperature Range Seal

# ELECTRICAL

Output Common Mode Voltage, Typ Output Impedance, Nom Operating Voltage Operating Current, Max. (Each Axis) Power Supply Rejection Ratio

ENGLISH		
1.6		
Flying leads		
Titanium Alloy		
MEMS		

±10	g
0 - 600	Hz
0 - 1000	Hz
>3000	Hz
50	mV/g
18	μg rms/√ Hz
0.5	% F.S
3	%

	_
±5000	gpk
111	(ppm of span)/°F
4	% of span
-67 to +257	۴F
Hermetic	

2.5	VDC
1225	Ω
±3 to ±11	VDC
13	mA DO
>65	dB

2.5	VDC
1225	Ω
±3 to ±11	VDC
13	mA DC
>65	dB

his	famil	y a	so	inc	ud	es:	

Itils family also includes.					
Model	Input Range (g)	Frequency Response (Hz) +/-3dB	Sensitivity Differential, ±5% (mV/g)	Max.Shock (0.1ms)	Noise Differential (μg/VHz)
7613A1-XX	±2	0-400	250	2000	7
7613A2-XX	±5	0-500	100	2000	12
7613A4-XX	±25	0-1400	20	5000	25
7613A5-XX	±50	0-2000	10	5000	50
7613A6-XX	±100	0-2500	5	5000	100
7613A7-XX	±200	0-3000	2.5	5000	200
7613A8-XX	±400	0-4000	1.25	5000	400

Refer to the performance specifications of the products in this family for detailed description.

### Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting stud, Model 6360, 1/4-28 UNF-2A, Qty 1
- 3) Mounting stud, Model 6691, 1/4-28 UNF-2A to M6 X 1, Qty 1
- 4) Mounting screws, Model 69034A16, 8-32 x 1.0, Qty. 2
- 5) Mounting screws, Model 6687A1, M4x0.7 x 25mm, Qty. 2
- 6) Flat washers, Model 6754, Qty. 2

#### Notes:

- [1] 12-conductor, 26AWG, White FEP Jacket
- [2] Single ended sensitivity is half of values shown. (Ref. at 100 Hz)
- [3] -90% to +90% of Full Scale.
- [4] Over the rated temperature range
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice.





